

*Ponirovskaya, L.I.*

USSR/Statistical Physics - Thermodynamics.

D-3

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11429

Author : Novakowskiy, M.S., Ponirovskaya, L.I.

Inst :

Title : Concerning the Problem of the Values of the Entropy for Aluminates of Calcium.

Orig Pub : Uch. zap. Khar'kovsk. un-ta, 1956, 71, 263-264

Abstract : To obtain the values of the entropy  $S$  of aluminates of calcium, required for thermodynamic calculations of manufacturing processes, but not contained in the handbook literature, the authors propose an empirical equation of the type  $S = AM + B$ , where  $M$  is the molecular volume of the compound,  $A = 0.52$ , and  $B = -3.5$  (constants). The values of  $S$  computed by this method differ little from those calculated by the majority of other similar methods.

Card 1/1

DAVYDOV, A.T.; PONIROVSKAYA, L.I.

Exchange sorption of anions of organic acid salts as dependent on their structure. Ukr. khim. zhur. 31 no.3:297-301  
'65. (MIRA 18:4)

1. Khar'kovskiy gosudarstvennyy universitet im. A.M. Gor'kogo.

NOVAKOVSKIY, M.S.; GINZBURG, D.M.; PONIROVSEAYA, L.I.

Interaction between calcium oxide and aluminum oxide in the solid  
phase. Uch.zap. KHGU 71:103-106 '56. (MLRA 10:8)  
(Calcium oxide) (Aluminum oxide)

SOV/137-57-6-9526

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 29 (USSR)

AUTHORS: Novakovskiy, M.S., Ginzburg, D.M., Ponirovskaya, L.I.

TITLE: The Solid-phase Reaction Between Calcium Oxide and Aluminum Oxide (O vzaimodeystvii okisi kal'tsiya s okis'yu alyuminiya v tverdoy faze)

PERIODICAL: Uch. zap. Khar'kovsk. un-t, 1956, Nr 71, pp 103-106

ABSTRACT: A thermodynamic analysis is made of the reactions of formation of  $\text{CaO} \cdot \text{Al}_2\text{O}_3$ ,  $2\text{CaO} \cdot \text{Al}_2\text{O}_3$  and  $3\text{CaO} \cdot \text{Al}_2\text{O}_3$  from  $\text{CaO} + \text{Al}_2\text{O}_3$  in the solid phase. As temperature rises, the first to form is  $\text{CaO} \cdot \text{Al}_2\text{O}_3$ , followed by enlargement of the crystals and an increase in the amount of compound. When the crystals attain a given size, the formation of a new compound (apparently  $5\text{CaO} \cdot \text{Al}_2\text{O}_3$ ) begins. However, at all temperatures, the end product of the reaction of  $\text{CaO}$  and  $\text{Al}_2\text{O}_3$  is  $3\text{CaO} \cdot \text{Al}_2\text{O}_3$ .

S.G.

Card 1/1

NOVAKOVSKIY, M.S.; PONIROVSKAYA, L.I.

Entropy values for calcium aluminates. Uch.zap. KHGU 71:263-264  
'56. (MLRA 10:8)  
(Calcium aluminates)

POHROVSKAYA, I.I., Cand <sup>Chem</sup>~~Physicist~~ Sci—(diss) "Int reaction between calcium  
oxide and aluminum oxide in the solid phase." Khar'kov, 1959. 31 pr  
(Min of Higher Education USSR. Khar'kov Order of Labor Red Banner State  
U in A.M.Gor'kiy', 100 copies (VL,31-58,99)

-14-

|                |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
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|                |  |  |  |  |  |  |  |  |  | 1ST AND 2ND COLUMNS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  | 3RD AND 4TH COLUMNS |  |  |  |  |  |  |  |  |  |
|                |  |  |  |  |  |  |  |  |  | PROCESSES AND PROPERTIES INDEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| Co.            |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  | 11 H                |  |  |  |  |  |  |  |  |  |
|                |  |  |  |  |  |  |  |  |  | <p>Action of neurotropic substances on secretory (salivary) nerves during experimental sensitization. N. G. Ponomarevskii and N. Ya. Ganetskaya. <i>M&amp;I exp. (In Russian)</i> 1939, No. 4, 1-6.—Expts. were performed on 8 dogs with chronic salivary fistulas. After the salivary response to small doses of a 1% soln. of pilocarpine-HCl was established, horse serum was administered to the dogs according to R. Weil. Observations were made for 90 min. The first (subcutaneous) and second (intravenous) injections of the serum (given 30 min. after the beginning of the salivation induced by pilocarpine) led to increased salivation. In dogs undergoing alternating tests with pilocarpine and adrenaline the second serum injection decreased the salivary response. The third intravenous serum injection produced, after a short period of increased salivation, an inhibition of the pilocarpine salivary response.</p> |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
|                |  |  |  |  |  |  |  |  |  | S. A. Common                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
|                |  |  |  |  |  |  |  |  |  | ASD-SLA METALLURGICAL LITERATURE CLASSIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |                     |  |  |  |  |  |  |  |  |  |
| SECOND EDITION |  |  |  |  |  |  |  |  |  | REVISION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  | REVISION            |  |  |  |  |  |  |  |  |  |
| FIRST EDITION  |  |  |  |  |  |  |  |  |  | SECOND EDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  | THIRD EDITION       |  |  |  |  |  |  |  |  |  |
| FOURTH EDITION |  |  |  |  |  |  |  |  |  | FIFTH EDITION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  | SIXTH EDITION       |  |  |  |  |  |  |  |  |  |

USSR / Diseases of Farm Animals. Diseases Caused by Protozoa.

R

Abs Jour : Ref Zhur - Biol., No 22, 1958, No 101552

Author : Ponirovskiy, N. G.

Inst : Turkmen Agricultural Institute of Agriculture.

Title : The Complex Therapy of Theileriasis in Cattle.

Orig Pub : Tr. Turkmen. s.-kh. in-ta, 1957, 9, 289-296

Abstract : For the purpose of regulating functions of the nervous system and of metabolism, the author used, besides sulfan-trol and hemosporodin, also certain vitamins (such as thia-mine, ascorbic and nicotinic acids, B<sub>12</sub>) which proved effective agents. He also used lysate-type preparations and biogenic stimulants (such as sympathomimetin, campolon, and others), and several antibiotics. In very severe cases of the disease he also used camphor, calceox, and others.

Card 1/2



PONTROVSKIY, V.N.

Loose smut of barley in Kharkov Province. Zashch. rast.  
ot vred. i bol. 7 no.2:25-26 F '62. (MIRA 15:12)

1. Khar'kovskiy sel'skokhozyaystvennyy institut.  
(Kharkov Province--Smuts)  
(Kharkov Province--Barley--Diseases and pests)  
(Seeds--Disinfection)

PRIDANTSEVA, Ye.A., nauchnyy sotrudnik; PONIROVSKIY, V.N. (Khar'kov);  
GRACHEV, A.F.; VOVCHEENKO, D.P., kand. biolog. nauk; CHEMODANOVA,  
Ye.V., kand. sel'skokhoz. nauk; KALINICHENKO, A.N.; PETRUSHOVA,  
N.I., kand. sel'skokhoz. nauk; OVCHARENKO, G.V.; FLORINSKAYA, G.N.;  
DROZDOVSKIY, E.M.; DROZDOVSKIY, E.M.; MATLASHENKO, Ye.V., aspirantka

Brief news. Zashch. rast. ot vred. i bol. 9 no.7:50-53 '64.  
(MIRA 18:2)

1. Dal'nevostochnaya opytnaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta rasteniyevodstva (for Grachev).
2. Mleyevskaya opytnaya stantsiya sadovodstva, Cherkasskaya oblast' (for Vovchenko).
3. Velikolukskiy sel'skokhozyaystvennyy institut (for Chemodanova).
4. Altayskaya opytnaya stantsiya sadovodstva, Barnaul (for kalinichenko).
5. Nikitskiy botanicheskiy sad (for Petrushova, Ovcharenko).
6. Moldavskiy institut sadovodstva, vinogradarstva i vinodeliya, Kishinev (for Florinskaya).
7. Nauchno-issledovatel'skiy zonal'nyy institut sadovodstva nechernozemnoy polosy (for Drozdovskiy).
8. Tadzhikskiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva (for Matlashenko).

FORSHOVA, S.M.; KARAPET'YAN, A.B.; PONIROVSKIY, Ye.H.

Some data on the study of visceral leishmaniasis in the  
Turkmen S.S.R. Med. paraz. i paraz. bol. 34 no.3:303-309  
My-Je '65. (MIRA 18:7)

1. Ashkhabadskiy institut epidemiologii i gigiyeny.

PONIUCH, A. Doc.

The diagnostic value of microabrasium and aspiration of the  
endometrium. Cesk. gyn. 24[38] no.6:398-403 July 1959

1. I. zen.-por klinika LFUK v Bratislave, prednosta prof. dr.

S. Stefanik

(GYNECOLOGICAL DISEASES, diag)

(ENDOMETRIUM, pathol)

PONIZ, Dusan

Typification in Japanese architecture. Architektura Pol no.7/8:315-319  
'61.

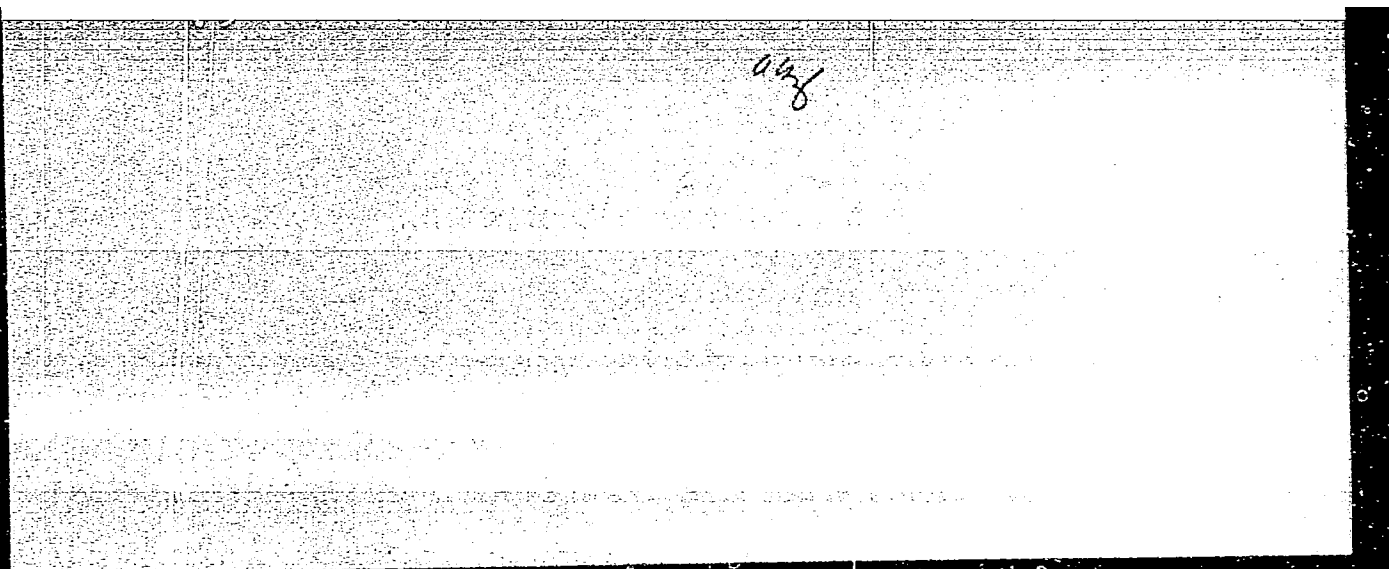
PONIZ, Natasa

A rapid method for staining of blood smears and its value in the differentiation of lymphocytes in various pathological conditions. Zdrav. vestn. 33 no.12:370-372 '64

1. Onkološki institut medicinske fakultete v Ljubljani  
(Direktor: prof. dr. Božena Ravnihar).

"APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342110009-0



APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001342110009-0"

POHIZ, R.

"Twenty years of Elektrotehniški vestnik." p. 2 (ELEKTROTEHNIŠKI VESTNIK, Vol. 21, no. 1/2, 1953, Ljubljana.)

SO: Monthly List of East European Accessions, Vol. 2, #3, Library of Congress  
August, 1953, Uncl.



PONIZ, R.

"Physical transactions from the Soviet Union." New series.  
Reviewed by R.Poniz. Elektr vest 29 no.8/10:233-234 '61.

PONIZ, R.

"Cyclic development of the West German economy from 1950 to 1957  
with a special emphasis on the industrial production" by R.Gündel.  
Reviewed by R.Poniz. Elektr vest 29 no.8/10:235 '61.

PONIZ, R.

"An Interesting Paradox of the Three-Phase System and its Practical Application"

p. 313

(ELEKTROTEHNIŠKI VESTNIK, Vol. 21, no. 11/12, 1953, Ljubljana, Yugoslavia)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

PONIZ, Roman, prof. dr. techn. ing.

Infrared radiation and its use" by A. Vasko. Reviewed  
by R. Poniz. Elektr vest 30 no. 10/12:323 '62/'63.

1. Chief and Responsible Editor, "Elektrotehniski vestnik".

HOFER, E.; AVCIN, F.; MIKLAVZIC, U.; PONIZ, R.; GOSAR, P.; GRUDEN, M.; DOBEIC, J.;  
VAJDA, B.; MLAKAR, F.; VIRANT, J.; VDCVIC, J.; JEREB, P.; GERLANG, I.;  
STARIC, P.; SKUBIC, T.; MAGAFNA, B.; KERSIC, N.; LEONARDIS, S.; PIRKMAJER,  
E.; CAJHEN, R.

New books and periodicals. Elektr vest 17 no.1/2:46-56 Ja-F '64.

PONIZ, W.

250th anniversary of engineering schools in Prague.

P. 7. (BUDOWNICTWO PRZEMYSLOWE) (Warszawa, Poland) Vol. 7, no. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC Vol. 7, No. 5, 1958

PONIZ, W.

"Influence of materials and construction on the architecture in industrial buildings."

p. 10 (Budownictwo Przemyslowe) Vol. 6, no. 3, Mar. 1957  
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,  
April 1958

PONIZ, W.

History and prospects of the development of this shell structures.

P. 74 (INzyniera i Budownictwo. Vol. 14, no. 3, Mar. 1957, Warszawa, Poland)

Monthly Index of East European Accessions (FFAI) LC. Vol. 7, no. 2,  
February 1958



PONIZ, W. - Inzynyske Stavby Vol. 3, no. 1, Jan. 1955

Contribution to the design of steel storage tanks for water. p.21

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 9, Sept. 1955, Uncl.

PONIZ, W.

"Technological Problems Concerning Steel Used for Prepressed Concrete Constructions."  
p. 248 (Inzyniera I Budownictwo, Vol. 10, No. 8, Aug. 1953, Warszawa)

SO: Monthly List of East European Accessions, Vol. 3, No. 6, Library of Congress, June,  
1954, Uncl.

~~PONIZ~~ Wenczeslaw, prof. dr inz.; OSTAPIUK, Henryk, mgr inz.;  
~~WITKOWSKI~~, Albin, mgr inz.

Results of radiographic studies on welded bridge structures.  
Inz i bud 19 no.9:367-368 S '62.

1. Politechnika, Szczecin.

PONIZ, Wenczeslaw (Warszawa)

Corrosion of reinforcing steel. Przegl budowl i bud mieszk 3/4 no.11:  
647-652 N '62.

PONIZ, Wenczeslaw, prof. dr inz.; WITKOWSKI, Albin, mgr inz.

Welded road bridge over the Sludwia River after 34 years service  
in the light of radiographic tests. Inz i bud 19 no.10:373-375  
0 '62.

PONIZ, WENCZESLAW, ed.

Podrecznik budowlany. Oprac. pod redakcja Wenczeslawa Poniza i Jerzego Nchaya.  
Dodruk do wyd. 1. Warszawa, Trzaska, Evert i Michalski, 1951. Vol. 1.  
Constructor's handbook

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress,  
Feb. 1954, Uncl. ....

PONIZIL, M.

An interview with Sculptor Otta Sukup.

P. 18. (ZELEZNICAR.) (Praha, Czechoslovakia) No. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

KRYER, Vladimir Nikolayevich. Prinimal uchastiye PONIZKO, T.A., inzh..  
ABRAMOV, P.A., prof., doktor tekhn.nauk, retsenzent; DUGANOV,  
G.V., dotsent, kand.tekhn.nauk, retsenzent; USHAKOV, K.Z.,  
otv.red.; OKHRIMENKO, V.A., red.izd-va; IL'INSKAYA, G.M.,  
tekhn.red.

[Mine air cooling systems] Shakhtnye vozdukhookhladitel'nye  
ustanovki. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu  
delu, 1960. 67 p. (MIRA 13:6)

1. Zaveduyushchiy kafedroy Rudnichnoy ventilyatsii i tekhniki  
bezopasnosti Dnepropetrovskogo gornogo instituta (for Abramov).
2. Kafedra Rudnichnoy ventilyatsii i tekhniki bezopasnosti Dnepro-  
petrovskogo gornogo instituta (for Duganov).  
(Coal mines and mining--Air conditioning)



L 34524-65, EWT(m)/EPF(c)/T Pr-4 WE

S/0020/65/160/003/0654/0657

ACCESSION NR: AP5005900

AUTHOR: Ponizko, T.A.; Rozlovskiy, A.I.

TITLE: The low temperature ignition of fuel gas mixtures

SOURCE: AN SSSR. Doklady, v. 160, no. 3, 1965, 654-657

TOPIC TAGS: fuel gas, gas mixture ignition, low temperature ignition, gas combustion, ignition temperature

ABSTRACT: The ignition temperature of mixtures of air with organic gases or vapors  
determining the possibility of decreasing the ignition

Cord

1/4

L 34524-65

ACCESSION NR: AP5005900

The values obtained for methane, hydrogen, gasoline, or ethyleneglycol diethylether  
while the minimum ignition temperature of

ASSOCIATION: none

SUBMITTED: 20Aug64

ENCL: 02

SUB CODE: FP

NO REF SOV: 012

OTHER: 012

Card 2/4

I. 34524-65

ACCESSION NR: AP5005900

ENCLOSURE: 01

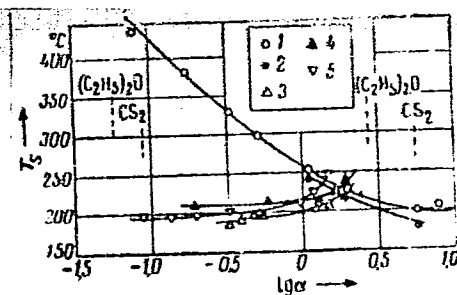


Fig. 1. Ignition temperatures of air mixtures of  $CS_2$  and  $(C_2H_5)_2O$ . 1- $CS_2$ , igniter (c),  
2- $CS_2$ , igniter (a); 3- $(C_2H_5)_2O$ , igniter (b, c),  $V = 73$  liters;

"APPROVED FOR RELEASE: 06/15/2000

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4-the same, V-17 1.; 5-the same, 1947 (2)

Card 3/4

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CIA-RDP86-00513R001342110009-0"

L 34524-65

ACCESSION NR: AP5005900

ENCLOSURE: 02

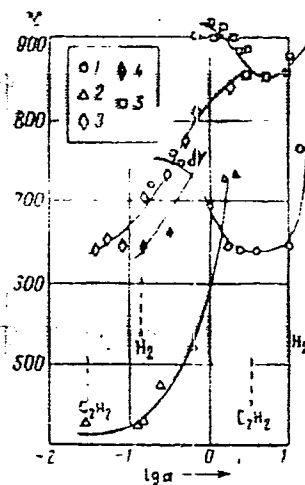


Fig. 2. The ignition temperature of air mixtures of  $C_2H_2$ ,  $H_2$ ,  $(C_2H_5O)C_2H_4$ , and  $C_2H_4$ .  $V = 73$  liters, igniter (d). 1- $H_2$ ; 2- $C_2H_4$ ; 3- $(C_2H_5O)C_2H_4$ ; 4- the same <

PONIZKO, T.A.; ROZIOVSKIY, A.I.

Low-temperature ignition of a mixture of fuel gases. Dokl. AN SSSR  
160 no.3:654-657 Ja '65. (MIRA 18:3)

1. Submitted August 24, 1964.

FONIZOV, T.

Labor organization in mining shafts. Bnl.nauch.inform.: trud i zar.  
plata no.12:19-25 '59. (MIRA 13:10)  
(Mining engineering--Production standards)



PONIZOV, T.I.; KHUTORSKAYA, Ye.S., red.izd-va; DOBUZHINSKAYA, L.V.,  
tekhn.red.

[Mixed crews engaged in underground mining] Kompleksnye  
brigady na podzemnykh rabotakh v gornorudnoi promyshlennosti.  
Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi  
metallurgii, 1959. 28 p. (MIRA 12:6)  
(Mine management)

15-57-3-3824D

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,  
p 191 (USSR)

AUTHOR: Ponizov, T. I.

TITLE: ~~Organizatsiya truda pri~~  
The Organization of the Labor Force for Rapid Methods  
of Conducting Horizontal Mining Operations (as Exempli-  
fied on Non-Ferrous Ores) /Organizatsiya truda pri  
skorostnykh metodakh prokhodki gorizonta'nykh gornykh  
vyrabotok (na primere rudnikov tsvetnoy metallurgii)/

ABSTRACT: Bibliographic entry on the author's dissertation for  
the degree of Candidate of Economic Sciences, presented  
to the Mosk. vyssh shkola profdvizheniya VTsSPS (Moscow Higher  
School of Trade Unionism of the All-Union Central Council of  
Trade Unions), Moscow, 1956.

ASSOCIATION: Mosk. vyssh. shkola profdvizheniya VTsSPS (Moscow Higher  
School of Trade Unionism of the All-Union Central Coun-  
cil of Trade Unions)

Card 1/1

PONIZOV, Trofim Iyanovich; PETRUSHEV, I.M., red.; GERASIMOVA,  
Ye.S., tekhn. red.

[Industrial production administration in the U.S.S.R.] Up-  
ravlenie promyshlennym proizvodstvom v SSSR. Moskva, Eko-  
nomizdat, 1963. 219 p. (MIRA 16:12)  
(Industrial organization)

POHIZOVKIN, A.N.; ETMANOV, S.Ya.; VINOGRADOV, V.V.; SHURKINA, V.S.  
Prinimali uchastiye: BRUSYANTSEV, N.V.; KOVAL'CHUK, V.P.;  
RYTCHENKO, V.I.; RUBETS, D.A.; KLINKOVSHTEIN, G.I.;  
FILIN, A.G., red.izd-va; MAL'KOVA, N.V., tekhn.red.

[Brief manual on motor vehicles] Kratkii avtomobil'nyi  
spravochnik. Izd.3., perer. i dop. Moskva, Avtotransizdat,  
1961. 461 p. (MIRA 14:12)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo  
transporta. 2. Nauchno-issledovatel'skiy institut avtomobil'-  
nogo transporta (for Ponizovkin, Etmanov, Vinogradov, Shurkina).  
(Motor vehicles)

PONIZOVKIN, A.N.; SHURKINA, V.S.; KUZNETSOV, V.A.; TUZOVSKIY, I.D.;  
ETIMANOV, S.Ya.; VINOGRADOV, V.V.; VLASKO, Yu.M.; GRINBERG,  
P.I., red.; BODANOVA, A.P., tekhn. red.

[Brief handbook on motor vehicles] Kratkii avtomobil'nyi  
spravochnik. Izd. 4., perer. i dop. Moskva, Avtotransiz-  
dat, 1963. 311 p. (MIRA 17:1)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'-  
nogo transporta. 2. Laboratoriya gruzovykh avtomobiley i  
avtopoyezdov Nauchno-issledovatel'skogo instituta avtomobil'-  
nogo transporta (for all except Grinber, Bodanova).  
(Motor vehicles)

PONIZOVKIN, A.N.; VAN, V.V.; MAL'KOVA, N.V., tekhn.red.

[Checking the alignment of front wheel with complete set of garage equipment] Proverka ustanovki perednikh koles avtomobilei s pomoshch'iu komplekta priborov GARO. Izd.2., ispr. 1 dop. Moskva, Avtotransizdat, 1959. 19 p. (MIRA 13:4)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta. 2. Nauchno-issledovatel'skiy institut avtomobil'nogo transporta (NIIAT) (for Ponizovkin, Van).  
(Automobiles--Wheels)

NAYDENOV, B.; ~~PONIZOVKIN~~, A.; SHLIPPE, I.

Soviet economy needs motor vehicles with special purpose bodies.  
Avt. transp. 38 no. 5:40-43 My '60. (MIRA 14:2)  
(Motor trucks)

PONIZOVKIN, A.

RUEETS, D.; KLINKOVSHTEYN, G.; PONIZOVKIN, A.N.

Progressive practice in automobile driving. Avt.transp. 32 no.1:  
9-11 Ja '54. (MLRA 7:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut avtomobil'nogo  
transporta.  
(Automobile drivers)



ABRAMOVICH, Abram Davydovich,; PONIZOVKIN, A.N., red.; GALAKTIONOVA,  
Ye. N., tekhn. red.

[Technical characteristics of automobiles; a manual] Tekhnicheskie  
kharakteristiki avtomobilei; spravochnik. Izd. 3., dop. i perer.  
Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1958. 152 p.  
(MIRA 11:12)

(Motor vehicles)

VINOGRADOV, V.V., tekhn.; IL'INA, Z.F., st. tekhn.; KAPRALOV, B.A., st. inzh.;  
PONIZOVKIN, A.N.; BRUSYANTSEV, N.V., kand. tekhn. nauk; KOVAL'CHUK,  
V.P., kand. tekhn. nauk.; NOVIKOVA, A.I., inzh.; RUBETS, D.A., kand.  
tekhn. nauk.; RYTCHENKO, V.I., ; SHURKINA, V.S., st. tekhn.;  
MAL'KOVA, N.V., tekhn. red.

[Concise automobile handbook] Kratkii avtomobil'nyi spravochnik.  
Moskva, Nauchno-tekhn. izd-vo avtotransportnoi lit-ry. 1958. 447 p.  
(MIRA 11:10)

1. Moscow. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy  
institut avtomobil'nogo transporta. 2. Nauchno-issledovatel'skiy  
institut avtomobil'nogo transporta (for all except Mal'kova). 3. Nachal'nik  
laboratorii gruzovykh avtomobiley Nauchno-issledovatel'skogo instituta  
avtomobil'nogo transporta (for Ponizovkin). 4. Nachal'nik laboratorii  
elektrooborudovaniya Nauchno-issledovatel'skogo instituta avtomobil'nogo  
transporta (for Rytchenko).

(Automobiles--Handbooks, manuals, etc.)

PONIZOVSKIY, A.N., otvetstvennyy za vypusk; GALAKTIONOVA, Ye.I., tekhnicheskiiy redaktor

[Checking automobile front wheel alignment with the help of a GARO instrument set; 2142 and 2182 models] Proverka ustanovki perednikh koles avtomobilei s pomoshch'yu komplekta priborov GARO; pribory modelei 2142 i 2182. Moskva, Nauchno-tekhn. izd-vo avtotransp. lit-ry, 1956. 15 p. (MLRA 9:10)

1. Moscow. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy institut avtomobil'nogo transporta.  
(Automobiles--Wheels)

POWIZOWIE, A. N.

Driving automobiles in winter. Za rul. 15 no.1:10 Ja '57.

(Automobile drivers)

(MLBA 10:4)

BRONSHTEYN, L.A., kand.tekhn.nauk; nauchnyy sotrudnik; BILIBIN, I.V.,  
nauchnyy sotrudnik; KVITCHENKO, Ya.P., nauchnyy sotrudnik;  
LEVIN, D.M., nauchnyy sotrudnik; NADEZHGIN, B.N., nauchnyy  
sotrudnik; NOVIKOVA, A.I., nauchnyy sotrudnik; PONIZOVKIN,  
A.N., nauchnyy sotrudnik; SHEYNIN, A.M., nauchnyy sotrudnik;  
ZUYEVA, N.K., tekhn.red.

[Operational and economic evaluation of truck-trains of various  
composition] Eksploataatsionno-ekonomicheskaya otsenka avtopoezdov  
razlichnogo sostava. Moskva, Nauchno-tekhn.izd-vo avtotransp.  
lit-ry. No.1. [ZIL truck train] Avtopoezda ZIL. 1958. 58 p.  
(MIRA 12:12)

1. Moscow. Nauchno-issledovatel'skiy institut avtomobil'nogo  
transporta. 2. Nauchno-issledovatel'skiy institut avtomobil'nogo  
transporta (for all, except Zuyeva).  
(Automobile trains)

PONIZOVSKAYA, A. I.

Treatment of diseases of the peripheral nervous system by pain  
stimulation of the skin. Zhur.nevr. i psikh. 57 no.5:628-631 '57.  
(MIRA 10:8)

(PAIN,  
pain stimulation of skin in ther. of peripheral  
nervous system dis. (Rus))  
(NERVES, PERIPHERAL, diseases,  
ther., pain stimulation of skin (Rus))

L 65049-55 EHA(b)-2/EHA(1)/ET(1)/T JZ

ACCESSION NR: AR5018565

UR/0299/65/000/014/B046/B046  
615.779.9:576.8

SOURCE: Ref. zh. Biologiya, (Svodnyy tom, Abs. 14B342

25  
65

AUTHOR: Ponizovkina, M. A.; Demidenko, M. Ye.

TITLE: Sensitivity of dysentery bacilli to various antibiotics

CITED SOURCE: Sb. nauchn. tr. Kafedry fak. Khirurgii AGMI i vrachey  
Kazakhsk. zh. d., vyp. 2, 1964, 253-255

TOPIC TAGS: antibiotic, bacteria, streptomycin, aureomycin,  
chloromycetin, bacterial disease, intestinal disease

Card 1/2

L 65069-65

ACCESSION NR: AR5018565

sensitive were S. sonnei bacilli and the most resistant were the



SUB CODE: LS

ENCL: 00

<sup>br</sup>  
Card 2/2

FATEYEVA, M.N.; KLIMOV, V.S.; PONIZOVSKAYA, A.I.; GORBARENKO, N.I.;  
SOKOLOV, V.V.; SMIRNOVA, M.I.

Effect of  $Cs^{137}$  on the human organism. Med.rad. 5 no.7:14-19  
'60. (MIRA 13:12)  
(RADIATION—PHYSIOLOGICAL EFFECT) (CESIUM—ISOTOPES)

1. 24750-66 EWT(m) LU(c)  
ACC NR: AP6014390

SOURCE CODE: UR/0391/66/000/004/0009/0014

AUTHOR: Lebedev, V. N. (Moscow); Gus'kova, A. K. (Moscow); Panizovskaya, A. I. (Moscow); Denisova, Ye. A. (Moscow); Gribova, I. A. (Moscow); Salatskaya, M. I. (Moscow); L'vovskaya, E. N. (Moscow) 27 B

ORG: Joint Institute of Nuclear Research (Ob'yedinennyy institut yadernykh issledovaniy); Scientific Research Institute of Industrial Hygiene and Occupational Diseases AMN SSSR (Institut gigiyeny truda i profzabolevaniy AMN SSSR)

TITLE: Clinical and dosimetric data derived from observation of personnel operating a 10-Gev OIYAI synchrophasotron (Analysis of results of dosimetric monitoring from 1956—1962) 19

SOURCE: Gigiyena truda i professional'nyye zabolevaniya, no. 4, 1966, 9-14

TOPIC TAGS: radiation effect, industrial hygiene, medical examination, systole, diastole, bradycardia

ABSTRACT: Workers operating a 10-Gev synchrophasotron at the high-energy laboratory of the Joint Institute of Nuclear Research in the period of 1955—1962 were examined, and clinical test results were correlated with data derived from dosimetric monitoring. Levels of influence of x-rays, gamma radiation, beta radiation, and fast neutron radiation (the latter in the energy range of 0.5—200 Mev) were determined by various methods. Workers were divided into three groups according to the kind

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UDC: 613.648:621.384.611

L 24780-66

ACC NR: AP6014390

and level of radiation to which they had been habitually exposed. It was found that the first group, consisting of people directly involved in the operation and repair of the synchrotron, in servicing of linear accelerators, etc., received doses from 2—3 rem (the maximum permissible dose was set at 5 rem/yr). The second group, consisting of physicists and engineers conducting the experiments, together with technicians and mechanics, received about the same amounts of radiation. The third group, auxiliary personnel such as electricians and janitors exposed to radiation only occasionally, averaged less than 0.5 rem/yr. Two hundred and fifty-four workers (all groups) were given thorough physical examinations in the course of the 8-yr observation period. Eighty-five percent of the subjects were men, 95% were under 40, and 67% had periods of service from 4—10 yr. Two hundred and two control subjects were given the same tests. The following functional shifts, all within physiological norms, were noted in the experimental group: 1) Seventeen percent of the experimental group had a systolic pressure of 100 mm or lower; as compared with 5% of the controls, and 35% had a systolic pressure of 105 mm or lower, as against 21% of the controls. 2) Diastolic pressure was also decreased in the experimental group, but to a lesser extent. 3) Pulse pressure in the experimental group averaged 40.6 mm as against 44 mm in the controls. 4) In the experimental group, tonus of blood vessels in the lower extremities was somewhat decreased. 5) Bradycardia was noted in 45% of the experimental group as compared with 28% of the controls. It must be noted that these variations did not hinder work capacity or seriously detract from the overall health of the subjects investigated. Orig. art. has: 2 figures and 1 table.

SUB CODE: 06/ SUBM DATE: 15Dec64/ ORIG REF: 008/ ATD PRESS: 4250  
Card 2/2

GOLODETS, R.G.; DENISOVA, Ye.A.; PONIZOVSKAYA, A.I.

Fubromegan for the treatment of vasovegetative disturbances  
in occupational diseases. Izv. AN Arm. SSR. Biol. nauki 16  
no.7:95-97 J1 '63. (MIRA 16:11)

1. Radiologicheskoye otdeleniya kliniki professional'nykh  
zabolevaniy Instituta gigiyeny truda i professional'nykh  
zabovelanij AMN SSSR.

4

PONIZOVSKAYA, B.M.

Problem of multiple liver abscesses in children. *Pediatrics*  
42 no.1:78-79 Ja'63. (MIRA 16:10)

1. Iz detskoy bol'nitsy imeni Rusakova (glavnyy vrach - za-  
sluzhennyy vrach RSFSR V.A.Kruzhkov) i kafedry detskoy khi-  
rurgii (zav. - prof. S. Ya.Doletskiy) Tsentral'nogo institu-  
ta usovershenstvovaniya vrachey.  
(LIVER ABSCESS) (CHILDREN---DISEASES)

DOLETSKIY, Stanislav Yakovlevich, prof.; LENYUSHKIN, Aleksey  
Ivanovich, kand. med. nauk; AFANAS'YEVA, V.M., kand.  
med. nauk; GOLOSOVA, T.V., kand. med. nauk; YERMOLIN,  
V.N.; KALAMKARYAN, A.A., kand. med. nauk; KRUCHININA,  
I.L., kand. med. nauk; NOVIKOVA, Ye.Ch., kand. med. nauk;  
YEGOROVA, A.M.; OSTROMOUKHOVA, G.A.; PONIZOVSKAYA, B.M.;  
FRIDMAN, R.A., red.

[Pyoinflammatory diseases in newborn infants] Gnoino-  
vospalitel'nye zabolevaniia novorozhdennykh. Moskva,  
Meditsina, 1965. 282 p. (MIRA 18:8)

SLUTSKAYA, S.R., kand.med.nauk (Moskva, Sadovo-Spasskaya ul. d.19, kv.149);  
PONIZOVSKAYA, B.M.; OSTROMOUKHOVA, G.A.

Strangulated inguinal hernias in children [with summary in English].  
Vest.khir. 81 no.12:56-58 D '58. (MIRA 12:2)

1. Iz kliniki detskoy khirurgii (zav. - V.A. Kruzhkov) Tsentral'-  
nogo instituta usovershenstvovaniya vrachey i klinicheskoy detskoy  
bol'nitsy imeni Rusakova.

(HERNIA, INGUINAL, in inf. & child  
strangulated, surg. (Rus))



PONIZOVSKAYA, B.M.

Acute hematogenic osteomyelitis in newborn infants. Vop.  
okh. mat. i det. 6 no.12:27-31 D '61. (MIRA 15:3)

1. Iz Detskoy bol'nitsy imeni I.V. Rusakova (glavnyy vrach -  
zasluzhennyy vrach RSFSR dotsent V.A. Kruzhkov) i kafedry  
detskoy khirurgii (zav. - prof. S.Ya. Doletskiy) Tsentral'nogo  
instituta usovershenstvovaniya vrachey.

(OSTEOMYELITIS)

(INFANTS (NEWBORN)--DISEASES)

*Ponizovskaya, I. A.*

USSR/Electrochemistry

B-12

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26319

Author : V.P. Batrakov, I.A. Ponizovskaya

Inst : Academy of Sciences of USSR

Title : Electronographic Study of Nature of Passive Films

Orig Pub : Izv. AN SSSR, ser. fiz., 1956, 20, No 7, 830-833

Abstract : The structure of passive films was studied. These films are forming on the surface (S) of St. 10, St. 45, U8, 30HGS, EI457, EI268, EI401 and 1H18N9T steels and industrial Al at the treatment in  $\text{Na}_2\text{Cr}_2\text{O}_7$  and  $\text{K}_2\text{Cr}_2\text{O}_7$ , as well as in  $\text{HNO}_3$  of medium (45 to 60%) and high (75%) concentrations. The electronograms (E) of carbon steel specimens, sandblasted and treated in  $\text{HNO}_3$  of medium concentration, are similar to E-s obtained for the specimens before their treatment ( $\alpha$ -Fe and traces of  $\gamma$ - $\text{Fe}_2\text{O}_3$ ). This indicates an adsorption mechanism of the passivation. In case of high  $\text{HNO}_3$  concentrations, and judging by E-s, an amorphous film possessing no protection properties originates on the surface. Specimens cleansed previously by 10% HCl were covered with a protection film of  $\gamma$ - $\text{Fe}_2\text{O}_3$  and  $\gamma$ - $\text{Fe}_2\text{O}_3 \cdot \text{H}_2\text{O}$  at

Card : 1/2

BATRAKOV, V.P.; PONIZOVSKAYA, I.A.

Electron diffraction examination of the characteristics of passive films. Izv.AN SSSR.Ser.fiz.20 no.7:830-833 J1 '56. (MLRA 9:11)  
(Electron diffraction examination) (Metallic films)

SOV/137-58-9-19595

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 210 (USSR)

AUTHORS: Batrakov, V.P., ~~Ponizovskaya, I.A.~~

TITLE: Electron-diffraction Study of the Nature of Passive Films (Elektronograficheskoye issledovaniye prirody passivnykh plenok)

PERIODICAL: V sb.: Korroziya i zashchita metallov. Moscow, Oborongiz, 1957, pp 66-73

ABSTRACT: The passivity of steel of the following grades: 10, 45, U8, 30KhGSA, 12Kh5MA, EI457, EI268, EI401, 1Kh18N9T, and of technical Al in solutions of  $\text{HNO}_3$ ,  $\text{Na}_2\text{Cr}_2\text{O}_7$ , and  $\text{K}_2\text{Cr}_2\text{O}_7$  of various concentrations was investigated. By means of the electron-diffraction method the structure of the surface layers, which form on these metals upon treatment by the solutions mentioned, was determined under various conditions. It is established that on carbon and low-alloy steel the structure of the surface layers depends on their composition, the oxidizer, the preliminary treatment of the steel, and the system of passivation. The passivation of carbon steel in  $\text{HNO}_3$  solutions of medium concentrations after pickling is ensured by the film (F).

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SOV/137-58-9-19595

Electron-diffraction Study of the Nature of Passive Films

In  $\text{Na}_2\text{Cr}_2\text{O}_7$  solution after pickling, the initial stage of passivation is determined by an adsorptive mechanism, and with the passing of time a protective amorphous film forms. The passivation of medium-alloy and stainless steel is established by the formation of a phase-adsorptive F. Amorphous F possessing no protective properties form on carbon and low-alloy steel in concentrated solutions of  $\text{HNO}_3$ . With an increase in the contents of alloying elements the amorphous layer decreases and the corrosion resistance increases. The passivation of Al in concentrated  $\text{HNO}_3$  is accomplished by the formation of a protective amorphous F. With a decrease in the concentration of  $\text{HNO}_3$  the corrosion increases, probably owing to the dissolution of the amorphous F and also to the dissolution of Al through the pores of the film.

- |                                              |                               |          |
|----------------------------------------------|-------------------------------|----------|
| 1. Thin films--Electron diffraction analysis | 2. Steel--Processing          | V.G.     |
| --Pickling                                   | 4. Nitric acid--Effectiveness | 3. Steel |

Card 2/2

KORET, M.A. [Korets, M.A.]; PONIZOVSKI, Z.I. [Ponizovskiy, Z.I.]

Vagrants of the Galaxy. Gaz mat B 13 no.4:202-211 Ap '62.

PONIZOVSKIY, A.M.

"Synthesis of Some Derivatives of Aminoquinolines," Zhur. Obshch. Khim., 14,

No. 4-5, 1944. Mbr. Lab. Chem., Moscow Textile Inst., -1943-.

| 1ST AND 2ND COPIES                               |  | PROCESS AND PROPERTIES INDEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 3RD AND 4TH COPIES    |  |
|--------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|
| MATERIALS NOTE                                   |  | <p>Some derivatives of aminoquinolines. H. M. Bogdanovskii and A. M. Ponomarevskii. <i>J. Gen. Chem. (U.S.S.R.)</i> 16, 316-18(1944) (English summary). 2-Aminoquinoline (5 g.) in 25 cc. benzene was treated with 5 g. <math>p</math>-tol. <math>\text{NaCO}_3</math> soln. in 25 cc. benzene and 20 cc. conc. <math>\text{NaHCO}_3</math> soln. after stirring for 2 hrs. with cooling and standing for 3-4 hrs., there was obtained 2-(<math>p</math>-nitrobenzamido)quinoline, m. 283-8° (from MeOH). Similarly there were prepd. 6-(<math>p</math>-nitrobenzamido)quinoline, m. 288-90° (from MeOH); and 8-(<math>p</math>-nitrobenzamido)quinoline, m. 174-76° (from MeOH). Reduction with Fe filings in dil. AcOH at the b.p. gave (in 40-50% yields): 2-(<math>p</math>-aminobenzamido)quinoline, m. 156-8° (from MeOH); 6-(<math>p</math>-aminobenzamido)quinoline, m. 98-8° (from MeOH); and 8-(<math>p</math>-aminobenzamido)quinoline, m. 103-2° (from MeOH). Diazotization of these derivs. and coupling with 1-acid gave red-blue dyestuffs with the substantivity coeffs. on mercerized cotton ranging from 39.6% to 43.6% (i.e., poor substantivity). G. M. Kosolapoff</p> |  | COMMON VARIANTS INDEX |  |
| ASAC-ELA METALLURGICAL LITERATURE CLASSIFICATION |  | ESCHM DOMINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | ESCHM DOMINT          |  |
| ESCHM LITERATURE                                 |  | ESCHM MAP ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | ESCHM MAP ONLY        |  |
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| ESCHM NO. 85                                     |  | ESCHM NO. 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | ESCHM NO. 87          |  |
| ESCHM NO. 88                                     |  | ESCHM NO. 89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | ESCHM NO. 90          |  |
| ESCHM NO. 91                                     |  | ESCHM NO. 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | ESCHM NO. 93          |  |
| ESCHM NO. 94                                     |  | ESCHM NO. 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | ESCHM NO. 96          |  |
| ESCHM NO. 97                                     |  | ESCHM NO. 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | ESCHM NO. 99          |  |
| ESCHM NO. 100                                    |  | ESCHM NO. 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 102         |  |
| ESCHM NO. 103                                    |  | ESCHM NO. 104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 105         |  |
| ESCHM NO. 106                                    |  | ESCHM NO. 107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 108         |  |
| ESCHM NO. 109                                    |  | ESCHM NO. 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 111         |  |
| ESCHM NO. 112                                    |  | ESCHM NO. 113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 114         |  |
| ESCHM NO. 115                                    |  | ESCHM NO. 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 117         |  |
| ESCHM NO. 118                                    |  | ESCHM NO. 119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 120         |  |
| ESCHM NO. 121                                    |  | ESCHM NO. 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 123         |  |
| ESCHM NO. 124                                    |  | ESCHM NO. 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 126         |  |
| ESCHM NO. 127                                    |  | ESCHM NO. 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 129         |  |
| ESCHM NO. 130                                    |  | ESCHM NO. 131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 132         |  |
| ESCHM NO. 133                                    |  | ESCHM NO. 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 135         |  |
| ESCHM NO. 136                                    |  | ESCHM NO. 137                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 138         |  |
| ESCHM NO. 139                                    |  | ESCHM NO. 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 141         |  |
| ESCHM NO. 142                                    |  | ESCHM NO. 143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 144         |  |
| ESCHM NO. 145                                    |  | ESCHM NO. 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 147         |  |
| ESCHM NO. 148                                    |  | ESCHM NO. 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 150         |  |
| ESCHM NO. 151                                    |  | ESCHM NO. 152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 153         |  |
| ESCHM NO. 154                                    |  | ESCHM NO. 155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 156         |  |
| ESCHM NO. 157                                    |  | ESCHM NO. 158                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 159         |  |
| ESCHM NO. 160                                    |  | ESCHM NO. 161                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 162         |  |
| ESCHM NO. 163                                    |  | ESCHM NO. 164                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 165         |  |
| ESCHM NO. 166                                    |  | ESCHM NO. 167                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 168         |  |
| ESCHM NO. 169                                    |  | ESCHM NO. 170                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 171         |  |
| ESCHM NO. 172                                    |  | ESCHM NO. 173                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 174         |  |
| ESCHM NO. 175                                    |  | ESCHM NO. 176                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 177         |  |
| ESCHM NO. 178                                    |  | ESCHM NO. 179                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 180         |  |
| ESCHM NO. 181                                    |  | ESCHM NO. 182                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 183         |  |
| ESCHM NO. 184                                    |  | ESCHM NO. 185                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 186         |  |
| ESCHM NO. 187                                    |  | ESCHM NO. 188                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 189         |  |
| ESCHM NO. 190                                    |  | ESCHM NO. 191                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 192         |  |
| ESCHM NO. 193                                    |  | ESCHM NO. 194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 195         |  |
| ESCHM NO. 196                                    |  | ESCHM NO. 197                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 198         |  |
| ESCHM NO. 199                                    |  | ESCHM NO. 200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 201         |  |
| ESCHM NO. 202                                    |  | ESCHM NO. 203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 204         |  |
| ESCHM NO. 205                                    |  | ESCHM NO. 206                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 207         |  |
| ESCHM NO. 208                                    |  | ESCHM NO. 209                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 210         |  |
| ESCHM NO. 211                                    |  | ESCHM NO. 212                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 213         |  |
| ESCHM NO. 214                                    |  | ESCHM NO. 215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 216         |  |
| ESCHM NO. 217                                    |  | ESCHM NO. 218                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 219         |  |
| ESCHM NO. 220                                    |  | ESCHM NO. 221                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 222         |  |
| ESCHM NO. 223                                    |  | ESCHM NO. 224                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 225         |  |
| ESCHM NO. 226                                    |  | ESCHM NO. 227                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 228         |  |
| ESCHM NO. 229                                    |  | ESCHM NO. 230                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 231         |  |
| ESCHM NO. 232                                    |  | ESCHM NO. 233                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 234         |  |
| ESCHM NO. 235                                    |  | ESCHM NO. 236                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 237         |  |
| ESCHM NO. 238                                    |  | ESCHM NO. 239                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 240         |  |
| ESCHM NO. 241                                    |  | ESCHM NO. 242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 243         |  |
| ESCHM NO. 244                                    |  | ESCHM NO. 245                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 246         |  |
| ESCHM NO. 247                                    |  | ESCHM NO. 248                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 249         |  |
| ESCHM NO. 250                                    |  | ESCHM NO. 251                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 252         |  |
| ESCHM NO. 253                                    |  | ESCHM NO. 254                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 255         |  |
| ESCHM NO. 256                                    |  | ESCHM NO. 257                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 258         |  |
| ESCHM NO. 259                                    |  | ESCHM NO. 260                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 261         |  |
| ESCHM NO. 262                                    |  | ESCHM NO. 263                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 264         |  |
| ESCHM NO. 265                                    |  | ESCHM NO. 266                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 267         |  |
| ESCHM NO. 268                                    |  | ESCHM NO. 269                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 270         |  |
| ESCHM NO. 271                                    |  | ESCHM NO. 272                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 273         |  |
| ESCHM NO. 274                                    |  | ESCHM NO. 275                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 276         |  |
| ESCHM NO. 277                                    |  | ESCHM NO. 278                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 279         |  |
| ESCHM NO. 280                                    |  | ESCHM NO. 281                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 282         |  |
| ESCHM NO. 283                                    |  | ESCHM NO. 284                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 285         |  |
| ESCHM NO. 286                                    |  | ESCHM NO. 287                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 288         |  |
| ESCHM NO. 289                                    |  | ESCHM NO. 290                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 291         |  |
| ESCHM NO. 292                                    |  | ESCHM NO. 293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 294         |  |
| ESCHM NO. 295                                    |  | ESCHM NO. 296                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 297         |  |
| ESCHM NO. 298                                    |  | ESCHM NO. 299                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 300         |  |
| ESCHM NO. 301                                    |  | ESCHM NO. 302                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 303         |  |
| ESCHM NO. 304                                    |  | ESCHM NO. 305                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 306         |  |
| ESCHM NO. 307                                    |  | ESCHM NO. 308                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 309         |  |
| ESCHM NO. 310                                    |  | ESCHM NO. 311                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 312         |  |
| ESCHM NO. 313                                    |  | ESCHM NO. 314                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 315         |  |
| ESCHM NO. 316                                    |  | ESCHM NO. 317                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 318         |  |
| ESCHM NO. 319                                    |  | ESCHM NO. 320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 321         |  |
| ESCHM NO. 322                                    |  | ESCHM NO. 323                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 324         |  |
| ESCHM NO. 325                                    |  | ESCHM NO. 326                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 327         |  |
| ESCHM NO. 328                                    |  | ESCHM NO. 329                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 330         |  |
| ESCHM NO. 331                                    |  | ESCHM NO. 332                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 333         |  |
| ESCHM NO. 334                                    |  | ESCHM NO. 335                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 336         |  |
| ESCHM NO. 337                                    |  | ESCHM NO. 338                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 339         |  |
| ESCHM NO. 340                                    |  | ESCHM NO. 341                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 342         |  |
| ESCHM NO. 343                                    |  | ESCHM NO. 344                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 345         |  |
| ESCHM NO. 346                                    |  | ESCHM NO. 347                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 348         |  |
| ESCHM NO. 349                                    |  | ESCHM NO. 350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 351         |  |
| ESCHM NO. 352                                    |  | ESCHM NO. 353                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 354         |  |
| ESCHM NO. 355                                    |  | ESCHM NO. 356                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 357         |  |
| ESCHM NO. 358                                    |  | ESCHM NO. 359                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 360         |  |
| ESCHM NO. 361                                    |  | ESCHM NO. 362                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 363         |  |
| ESCHM NO. 364                                    |  | ESCHM NO. 365                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 366         |  |
| ESCHM NO. 367                                    |  | ESCHM NO. 368                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 369         |  |
| ESCHM NO. 370                                    |  | ESCHM NO. 371                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 372         |  |
| ESCHM NO. 373                                    |  | ESCHM NO. 374                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 375         |  |
| ESCHM NO. 376                                    |  | ESCHM NO. 377                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 378         |  |
| ESCHM NO. 379                                    |  | ESCHM NO. 380                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 381         |  |
| ESCHM NO. 382                                    |  | ESCHM NO. 383                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 384         |  |
| ESCHM NO. 385                                    |  | ESCHM NO. 386                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 387         |  |
| ESCHM NO. 388                                    |  | ESCHM NO. 389                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 390         |  |
| ESCHM NO. 391                                    |  | ESCHM NO. 392                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 393         |  |
| ESCHM NO. 394                                    |  | ESCHM NO. 395                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 396         |  |
| ESCHM NO. 397                                    |  | ESCHM NO. 398                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 399         |  |
| ESCHM NO. 400                                    |  | ESCHM NO. 401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 402         |  |
| ESCHM NO. 403                                    |  | ESCHM NO. 404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 405         |  |
| ESCHM NO. 406                                    |  | ESCHM NO. 407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 408         |  |
| ESCHM NO. 409                                    |  | ESCHM NO. 410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 411         |  |
| ESCHM NO. 412                                    |  | ESCHM NO. 413                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 414         |  |
| ESCHM NO. 415                                    |  | ESCHM NO. 416                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 417         |  |
| ESCHM NO. 418                                    |  | ESCHM NO. 419                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 420         |  |
| ESCHM NO. 421                                    |  | ESCHM NO. 422                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 423         |  |
| ESCHM NO. 424                                    |  | ESCHM NO. 425                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 426         |  |
| ESCHM NO. 427                                    |  | ESCHM NO. 428                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 429         |  |
| ESCHM NO. 430                                    |  | ESCHM NO. 431                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 432         |  |
| ESCHM NO. 433                                    |  | ESCHM NO. 434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 435         |  |
| ESCHM NO. 436                                    |  | ESCHM NO. 437                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 438         |  |
| ESCHM NO. 439                                    |  | ESCHM NO. 440                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 441         |  |
| ESCHM NO. 442                                    |  | ESCHM NO. 443                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 444         |  |
| ESCHM NO. 445                                    |  | ESCHM NO. 446                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 447         |  |
| ESCHM NO. 448                                    |  | ESCHM NO. 449                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 450         |  |
| ESCHM NO. 451                                    |  | ESCHM NO. 452                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 453         |  |
| ESCHM NO. 454                                    |  | ESCHM NO. 455                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 456         |  |
| ESCHM NO. 457                                    |  | ESCHM NO. 458                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 459         |  |
| ESCHM NO. 460                                    |  | ESCHM NO. 461                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 462         |  |
| ESCHM NO. 463                                    |  | ESCHM NO. 464                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 465         |  |
| ESCHM NO. 466                                    |  | ESCHM NO. 467                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 468         |  |
| ESCHM NO. 469                                    |  | ESCHM NO. 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 471         |  |
| ESCHM NO. 472                                    |  | ESCHM NO. 473                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 474         |  |
| ESCHM NO. 475                                    |  | ESCHM NO. 476                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 477         |  |
| ESCHM NO. 478                                    |  | ESCHM NO. 479                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 480         |  |
| ESCHM NO. 481                                    |  | ESCHM NO. 482                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 483         |  |
| ESCHM NO. 484                                    |  | ESCHM NO. 485                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 486         |  |
| ESCHM NO. 487                                    |  | ESCHM NO. 488                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 489         |  |
| ESCHM NO. 490                                    |  | ESCHM NO. 491                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 492         |  |
| ESCHM NO. 493                                    |  | ESCHM NO. 494                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 495         |  |
| ESCHM NO. 496                                    |  | ESCHM NO. 497                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 498         |  |
| ESCHM NO. 499                                    |  | ESCHM NO. 500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 501         |  |
| ESCHM NO. 502                                    |  | ESCHM NO. 503                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 504         |  |
| ESCHM NO. 505                                    |  | ESCHM NO. 506                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 507         |  |
| ESCHM NO. 508                                    |  | ESCHM NO. 509                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 510         |  |
| ESCHM NO. 511                                    |  | ESCHM NO. 512                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 513         |  |
| ESCHM NO. 514                                    |  | ESCHM NO. 515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 516         |  |
| ESCHM NO. 517                                    |  | ESCHM NO. 518                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 519         |  |
| ESCHM NO. 520                                    |  | ESCHM NO. 521                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 522         |  |
| ESCHM NO. 523                                    |  | ESCHM NO. 524                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 525         |  |
| ESCHM NO. 526                                    |  | ESCHM NO. 527                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 528         |  |
| ESCHM NO. 529                                    |  | ESCHM NO. 530                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 531         |  |
| ESCHM NO. 532                                    |  | ESCHM NO. 533                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 534         |  |
| ESCHM NO. 535                                    |  | ESCHM NO. 536                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 537         |  |
| ESCHM NO. 538                                    |  | ESCHM NO. 539                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 540         |  |
| ESCHM NO. 541                                    |  | ESCHM NO. 542                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 543         |  |
| ESCHM NO. 544                                    |  | ESCHM NO. 545                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 546         |  |
| ESCHM NO. 547                                    |  | ESCHM NO. 548                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 549         |  |
| ESCHM NO. 550                                    |  | ESCHM NO. 551                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 552         |  |
| ESCHM NO. 553                                    |  | ESCHM NO. 554                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 555         |  |
| ESCHM NO. 556                                    |  | ESCHM NO. 557                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 558         |  |
| ESCHM NO. 559                                    |  | ESCHM NO. 560                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 561         |  |
| ESCHM NO. 562                                    |  | ESCHM NO. 563                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 564         |  |
| ESCHM NO. 565                                    |  | ESCHM NO. 566                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 567         |  |
| ESCHM NO. 568                                    |  | ESCHM NO. 569                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 570         |  |
| ESCHM NO. 571                                    |  | ESCHM NO. 572                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | ESCHM NO. 573         |  |
| ESCHM                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                       |  |



PONIZOVSKIY, A.M.

✓ Geochemistry of bromine in the Azov and Black Sea basin. A. M. Ponizovskiy. *Trudy Krym. Filiala, Akad. Nauk S.S.S.R.* 4, No. 1, 65-62 (1953).—In order to estab-

lish whether the brine in the semi-inland bays of the Azov Sea contained more Br or less than the ocean or the Black Sea waters, the Br coeff.,  $K_{Br} = 100[Br]/[Cl]$ , of these waters was detd. on a total of 210 samples. The amt. of Br in the semi-inland bays increased with increased brine concn. and reached a max. of 240-50 g./cu.m.;  $K_{Br}$  varied from 0.336 to 0.334 and was almost identical to  $K_{Br}$  of the ocean and the Azov Sea.  $K_{Br}$  of the Black Sea varied from 0.325 to 0.373. Elizabeth Barabash

PONIZOVSKIY, A. M.

CH ✓ Surface tension of sea water and brines of salt lakes. P. T. Danil'chenko, A. M. Ponizovskii, and N. I. Globina. *Trudy Krym. Filiala, Akad. Nauk S.S.S.R.*, 4, No. 1, 69-73 (1953); cf. Tananaeva and Levina, *C.A.* 39, 2042; Reblinder and Smirnova, *Doklady Akad. Nauk S.S.S.R.* 52, No. 4 (1948).—Salinity was detd. by T. and L.'s method and surface tension by R. and L.'s method which observes the pressure of gas bubbles on the liquid-air boundary. The results of duplicate analyses of 24 samples were expressed by the equation  $\sigma = 0.3815S + 72.6$ , where  $\sigma$  = surface tension in ergs/sq. cm. and  $S$  = salinity in wt. %. Just before each detn. a paraffined filter paper was carefully moved through the sample surface to carry away surface-active substances. Without this treatment the equation was not valid, and surface tension was decreased as much as 3 ergs/sq. cm. NaCl soln. was studied also. Turilla Mayzels

(1)

PONIZOVSKIY, A. M.

Viscosity and specific heat of sea water and natural brines.  
A. M. Ponizovskii, E. P. Meleshko, and N. I. Globina.  
*Trudy Krym. Filiala, Akad. Nauk S.S.S.R.* 4, No. 1, 75-80  
(1953).—Isotherms of viscosity were detd. for natural  
brines at 10°, 20°, and 30° and for NaCl soln. at 20°. With  
increasing concn. relative viscosity increased most rapidly  
at the lowest temp. Viscosities of NaCl solns. were slightly  
lower than those of brines with corresponding %S (salinity).  
With decreasing temp., relative viscosity increased most  
rapidly at the highest %S. Sp. heat of brines was expressed  
by  $C = 1 - 5.91307S$ , where  $C$  = sp. heat and  $S$  = % salin-  
ity. Qual. compar. of brines (% MgCl<sub>2</sub>, etc.) did not seem  
to affect the relation. Salinity was detd. by refractometer  
or the fluoride method. Burilla Mayele

(2)

PONIZOVSKIY, A. M.

USSR/ Chemistry - Metallurgy

Card 1/1 : Pub. 124 - 11/24

Authors : Kozin, Ya. D., Dr. of Geol. Sc.; Danil'chenko, P. T., Dr. of Chem. Sc.; and Ponizovskiy, A. M., Cand. of Chem. Sc.

Title : Saline magnesium hydroxide

Periodical : Vest. AN SSSR 11, 63-64, November 1954

Abstract : The derivation of  $MgO$ , used in the manufacture of refractories, from natural brine (saline) of the salt-water lakes of Crimea is described. The problem of utilizing seawash of the Azov Sea for the obtainment of saline  $MgO$  is discussed. Tables.

Institution : .....

Submitted : .....

*PONIZOVSKIY, A.M.*

**PONIZOVSKIY, A.M.; MELESHKO, Ye.P.**

On the geochemistry of boron in salt reservoirs of the Crimea  
[with summary in English]. Geokhimiya no.7:642-644 '57.

(MIRA 11:1)

1. Institut mineral'nykh resursov AN USSR, Simferopol'.  
(Crimea--Boron)

PONIZOVSKIY, A.M.; SHARGORODSKIY, S.D.; STAVROV, S.N.; VLADIMIROVA, N.M.

Thenardite in the Marfovka Lake, Crimea. Izv. Kryn. otd. Geog.  
ob-va no.5:275-276 '58. (MIRA 14:9)  
(Marfovka Lake--Thenardite)

PONIZOVSKIY, A.M. [Ponyzovs'kyi, A.M.]; SHARGORODSKIY, S.D. [Shargorods'kyi, S.D.]  
~~STAVROV, S.N. [Stavrov, S.M.]; VLADIMIROVA, N.M. [Vladymyrova, N.M.]~~

Thenardite and mirabilite in Lake Marfovka. Dop. AN URSR no.6:651-653  
'58. (MIRA 11:9)

1. Institut mineral'nykh resursov AN USSR. Predstavil akademik AN USSR  
Yu.K. Delimarskiy [IU.K. Delimars'kyi]  
(Marfovka, Lake (Kerch Peninsula--Thenardite)  
(Marfovka, Lake (Kerch Peninsula--Mirabilite)

PONIZOVSKIY, A.M.

Phase transformations in cooling Sivash Brine. Ukr. khim. zhur.

24 no.3:391-395 '58.

(MIRA 11:9)

(Sivash--Water--Analysis) (Brines)



5 (2)

AUTHORS:

Ponizovskiy, A. M., Vladimirova, N. M. SOV/20-126-1-26/62

TITLE:

The Solubility of the Na, Mg || Cl, HCO<sub>3</sub> - H<sub>2</sub>O System (Rastvorimost' sistemy Na, Mg || Cl, HCO<sub>3</sub> - H<sub>2</sub>O)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 1, pp 97 - 98 (USSR)

ABSTRACT:

Only few data exist on the topic mentioned in the title (Refs 1,2). The authors investigated the mentioned system at ~0° and P<sub>CO<sub>2</sub></sub> = 4 atm. An autoclave of viniplast which was produced in a refrigerator of the type "Dnepr" served for this purpose. Magnesium chloride of the type ch. (pure), sodium chloride ch. d. a. (pure, pro analysi), and basic magnesium carbonate of the type ch. were used as initial substances. The data of the solubility of the system are given in table 1 and figures 1 and 2. The equilibrium diagram of the mentioned system contains 4 crystallization fields of the following salts: sodium bicarbonate (more than 50% of the area), magnesium carbonate pentahydrate, sodium chloride and magnesium chloride hexahydrate (Fig 2). Sodium car-

Card 1/2

The Solubility of the Na, Mg || Cl, HCO<sub>3</sub> - H<sub>2</sub>O System SOV/20-126-1-26/62

bonate is in the mentioned system as well as in the ternary system NaCl-NaHCO<sub>3</sub>-H<sub>2</sub>O which is an ingredient of the first displaced in the solutions by sodium chloride (Figs 1 and 2). The sodium carbonate field will considerably increase with the increase of P<sub>CO<sub>2</sub></sub> at the expense of the magnesium carbonate

field. The sodium- and magnesium chloride fields will remain practically unchanged. The results obtained will be, besides the theoretical interest, also a physical-chemical basis for the production of sodium carbonate by means of magnesium carbonate. This method is assumed to be suitable as well for the production of potash. There are 2 figures, 1 table, and 2 Soviet references.

ASSOCIATION: Institut mineral'nykh resursov Akademii nauk USSR, Simferopol' (Institute of Mineral Resources of the Academy of Sciences UkrSSR, Simferopol')

PRESENTED: November 24, 1958, by I. I. Chernyayev, Academician

SUBMITTED: October 19, 1958

Card 2/2

PONIZOVSKIY, A.M.; MELESHKO, Ye.P.

Physicochemical investigations of the Perekop salt lakes. Zhur.  
neorg.khim. 5 no.6:1329-1336 Je '60. (MIRA 13:7)  
(Perekop Lakes)

PONIZOVSKIY, A.M.; VLADIMIROVA, I.M.; GORDON-YANOVSKIY, F.A.

Solubility in the system Na, Mg // Cl, HCO<sub>3</sub> - H<sub>2</sub>O at 0° and a 4 to 10 kg./cm.<sup>2</sup> pressure of carbon dioxide. Zhur<sup>2</sup> neorg. khim. 5 no.11: 2587-2592 H '60. (MIRA 13:11)

(Systems—Chemistry)

PONIZOVSKIY, A.M., kand. khim. nauk (Simferopol')

At the very shore of the Black Sea; Kara-Dag biological station.  
Priroda 54 no.5:76-78 My '65.

(MIRA 18:5)

PONIZOVSKIY, A.M., kand. khim. nauk, otv. red.; ARAV, R.I., red.;  
KUSENKO, Yu.M., red.; STAVROV, S.N., kand. khim. nauk,  
red.

[Problems in the overall processing of sea brine and the  
production of saline building materials] Voprosy kompleks-  
noi pererabotki rassolov morskogo tipa i polucheniia rap-  
nykh stroitel'nykh materialov. Simferopol, Krymizdat,  
1963. 151 p. (MIRA 17:12)

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budivel'nykh materialiv i vyrobiv. Krymskyi filial.

~~PONIZOVSKIY, Abram Mikhaylovich, kand. khim. nauk; STAVROV,~~  
Stepan Nikolayevich, kand. khim. nauk; SEBKO, G., red.

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Let  $S$  be a finite semigroup (associative system). Let  $P$  be a field, and let  $\mathcal{V}(S, P)$  be the semigroup algebra consisting of all formal linear combinations

$$\sum \alpha_x x \quad (\alpha_x \in P, x \in S),$$

with termwise addition and scalar multiplication, and with  $(\sum \alpha_x x)(\sum \beta_y y) = \sum \sum \alpha_x \beta_y xy$ . If  $S$  has a 2-sided zero

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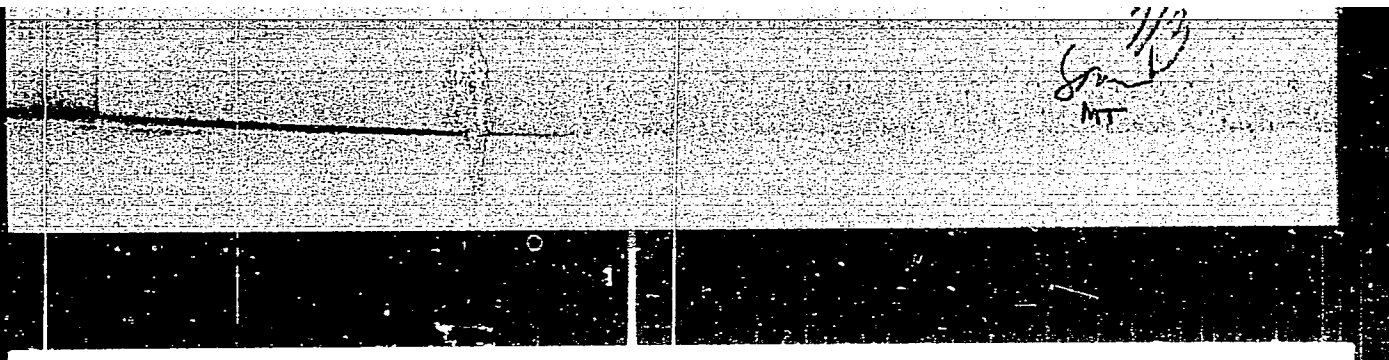
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